

Laboratory Report Number: L12010686

Mark Lyon
Environmental Waste Solutions
2440 Louisiana Blvd
Albuquerque, NM 87110

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact:
Stephanie Mossburg – Team Chemist/Data Specialist
(740) 373-4071
Stephanie.Mossburg@microbac.com

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on February 08 2012



David Vandenberg – Managing Director

State of Origin: NM
Accrediting Authority: N/A ID:N/A
QAPP: DOD Ver 4.1



Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

Discrepancy	Resolution
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Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #
0010520	H	1.0		1002239543760004575000874824308804

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct preservatives used? (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	Yes
12	Were VOA samples free of headspace (less than 6mm)?	NA

Lab Report #: L12010686

Lab Project #: 3005.011

Project Name: White Sands MR

Lab Contact: Stephanie Mossburg

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
MPL30-0112-1	L12010686-01	01/25/2012 11:15	01/26/2012 10:42
MPL29-0112-1	L12010686-02	01/25/2012 13:50	01/26/2012 10:42
MPL26-0112-1	L12010686-03	01/25/2012 15:25	01/26/2012 10:42



Login Number: L12010686
Department: Conventional
Analyst: Tammy Morris

METHOD

Analysis SW846 9040C,9045D/EPA 150.1/SM4500-H B (pH)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 41775

Approved By: Deanna Hesson

A handwritten signature in black ink, appearing to read "Deanna Hesson", is written over the printed name.



Login Number: L12010686
Department: Metals
Analyst: Sheri Pfalzgraf

METHOD

Preparation: SW-846 3005
Preparation: SW-846 3005A
Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Interference Check Standards: All acceptance criteria were met.
Continuing Calibration Verification: All acceptance criteria were met.
Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Sample: All acceptance criteria were met.
Serial Dilution/Post Digestion Spikes: WG388125 - All acceptance criteria were met.
Serial Dilution/Post Digestion Spikes: All acceptance criteria were met.
Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: WG388125 - Client sample 03 yielded a magnesium result that exceeded the calibration range. The sample was reanalyzed with a compliant linear range check for magnesium.
Samples: All acceptance criteria were met.

Narrative ID: 41447
Approved By: Sheri Pfalzgraf

A handwritten signature in black ink, appearing to read "Sheri L. Pfalzgraf", is written over the printed name.



Login Number: L12010686
Department: Metals
Analyst: Ji Hu

METHOD

Preparation: SW-846 3015

Analysis: SW-846 6020

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

Low Level Check: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG388245 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 41607

Approved By: Sheri Pfalzgraf

A handwritten signature in black ink, appearing to read "Sheri L. Pfalzgraf", is written over the printed name.



Login Number: L12010686
Department: Metals - AA
Analyst: Sheri Pfalzgraf

METHOD

Preparation: SW-846 7470

Preparation: SW-846 7471(solid)/SW-846 7470(water)

Analysis: SW-846 7470

Analysis: SW-846 7471(solid)/SW-846 7470(water)

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG388140 - All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 41416

Approved By: Sheri Pfalzgraf

A handwritten signature in black ink, appearing to read "Sheri L. Pfalzgraf".



Login Number: L12010686
Department: General Chromatography
Analyst: Jeremy Kinney

METHOD

Analysis SW-846 9056/300.0

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All samples were analyzed at a dilution only due to their CI concentrations which were greater than the ICAL.

Surrogates: All acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

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Narrative ID: 41598

Approved By: Jeremy Kinney





Login Number: L12010686
Department: Conventional
Analyst: Deanna Hesson

METHOD

Analysis EPA 310.2 (Alkalinity)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: The blank result was greater than the absolute value of the LOD.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 41627

Approved By: Deanna Hesson

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Login Number: L12010686
Department: Conventional
Analyst: Dorothy Payne

METHOD

Analysis SW846 9014/9010C/SM4500-CN-C,E-20th (Cyanide)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Cyanide-Ammonable is the difference between the total cyanide and the treated cyanide. The LCS is analyzed to show that all of the cyanide is ammonable (the treated portion is ND). The LCS forms cannot calculate cyanide ammonable. The LCS is acceptable.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 41779

Approved By: Deanna Hesson

A handwritten signature in black ink, appearing to read "Deanna Hesson", is written over a horizontal line.



Login Number: L12010686
Department: Conventional
Analyst: Dorothy Payne

METHOD

Analysis EPA 120.1/SM2510 B (Conductivity)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 41774

Approved By: Deanna Hesson

A handwritten signature in black ink, appearing to read "Deanna Hesson", is written over the printed name.



Login Number: L12010686
Department: Conventional
Analyst: Deanna Hesson

METHOD

Analysis EPA 350.1/SM4500-NH3 B(NH3)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 41776

Approved By: Deanna Hesson

A handwritten signature in black ink, appearing to read "Deanna Hesson", is written below the "Approved By" text.



Login Number: L12010686
Department: Conventional
Analyst: Deanna Hesson

METHOD

Analysis EPA 353.2/SM4500-NO3 F (Nitrate)

HOLDING TIMES

Sample Analysis: Nitrate is reported as the difference of nitrate-nitrite (28 day hold) and nitrite (48 hour hold). Both analysis were analyzed within the appropriate hold time. The nitrate hold time is within compliance.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 41777

Approved By: Deanna Hesson

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Login Number: L12010686
Department: Conventional
Analyst: Holly Reed

METHOD

Analysis EPA 365.2/SM4500-P E (Orthophosphate)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 41778

Approved By: Deanna Hesson

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Login Number: L12010686
Department: Conventional
Analyst: Holly Reed

METHOD

Analysis EPA 160.1/SM2540 C(Total Dissolved Solids)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 41781

Approved By: Deanna Hesson

A handwritten signature in black ink, appearing to read "Deanna Hesson", is written over the printed name.



Login Number: L12010686
Department: Conventionals
Analyst: Deanna Hesson

METHOD

Analysis Water: EPA 415.1/SM5310C/SW846 9060 (Total Organic Carbon)
Soil: Lloyd-Khan Methodology

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 41780

Approved By: Deanna Hesson

A handwritten signature in cursive script, appearing to read "Deanna Hesson", written in black ink.



Login Number: L12010686
Department: Conventional
Analyst: Holly Reed

METHOD

Analysis EPA 160.2/SM2540 D (Total Suspended Solids)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: The RPD for the LCS/LCS duplicate exceeded the advisory limits. Each LCS had an acceptable recovery.

Duplicates: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 41532

Approved By: Deanna Hesson

A handwritten signature in black ink, appearing to read "Deanna Hesson", is written over the printed name.

Certificate of Analysis

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: MPL30-0112-1	Prep Method: 3005A	Prep Date: 01/27/2012 06:23
Matrix: Water	Analytical Method: 6010B	Cal Date: 01/27/2012 11:44
Workgroup #: WG388125	Analyst: SLP	Run Date: 01/27/2012 15:48
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: P2.012712.154810
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Beryllium, Total	7440-41-7		U	0.00200	0.00100
Calcium, Total	7440-70-2	83.1		0.200	0.100
Magnesium, Total	7439-95-4	11.5		0.500	0.250
Manganese, Total	7439-96-5		U	0.0100	0.00500
Potassium, Total	7440-09-7	3.33		1.00	0.500
Sodium, Total	7440-23-5	32.3		0.500	0.250
Tin, Total	7440-31-5		U	0.500	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6		U	0.0200	0.0100
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: ELAN-ICP
Client ID: MPL30-0112-1	Prep Method: 3015	Prep Date: 01/30/2012 06:29
Matrix: Water	Analytical Method: 6020	Cal Date: 01/31/2012 10:51
Workgroup #: WG388245	Analyst: JYH	Run Date: 01/31/2012 15:29
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: EL.013112.152903
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.00100	0.000500
Arsenic, Total	7440-38-2	0.0102		0.00100	0.000500
Barium, Total	7440-39-3	0.102		0.00300	0.00150
Cadmium, Total	7440-43-9		U	0.000600	0.000300
Chromium, Total	7440-47-3	0.00514		0.00200	0.00100
Cobalt, Total	7440-48-4		U	0.00100	0.000500
Copper, Total	7440-50-8	0.00107	J	0.00200	0.00100
Lead, Total	7439-92-1		U	0.00100	0.000500
Nickel, Total	7440-02-0	0.00303	J	0.00400	0.00200
Selenium, Total	7782-49-2	0.0368		0.00100	0.000500
Silver, Total	7440-22-4		U	0.00100	0.000500
Thallium, Total	7440-28-0		U	0.000200	0.000100
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

Certificate of Analysis

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: HYDRA
Client ID: MPL30-0112-1	Prep Method: 7470A	Prep Date: 01/27/2012 08:27
Matrix: Water	Analytical Method: 7470A	Cal Date: 01/27/2012 14:02
Workgroup #: WG388140	Analyst: SLP	Run Date: 01/27/2012 14:46
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: HY.012712.144637
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Mercury	7439-97-6		U	0.000200	0.000100
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: IC2
Client ID: MPL30-0112-1	Prep Method: 300.0	Prep Date: 01/31/2012 16:00
Matrix: Water	Analytical Method: 300.0	Cal Date: 12/21/2011 13:49
Workgroup #: WG388430	Analyst: JBK	Run Date: 01/31/2012 20:17
Collect Date: 01/25/2012 11:15	Dilution: 4	File ID: I20131122017.17
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Chloride	16887-00-6	59.8		0.800	0.400
Fluoride	16984-48-8	0.448	J	0.800	0.400
Sulfate	14808-79-8	105		4.00	2.00
J	Estimated value ; the analyte concentration was less than the LOQ.				

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: ORION-4STAR
Client ID: MPL30-0112-1	Prep Method: 9040C	Prep Date: N/A
Matrix: Water	Analytical Method: 9040C	Cal Date:
Workgroup #: WG388040	Analyst: TMM	Run Date: 01/26/2012 12:30
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: OS12012709271301
Sample Tag:	Units: UNITS	

Analyte	CAS #	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	7.72		0.000	0.000

Certificate of Analysis

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL30-0112-1	Prep Method: 310.2	Prep Date: N/A
Matrix: Water	Analytical Method: 310.2	Cal Date: 01/31/2012 08:52
Workgroup #: WG388329	Analyst: DIH	Run Date: 01/31/2012 09:06
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: SC120131001.030
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Carbonate (as CaCO ₃)			U	20.0	10.0
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL30-0112-1	Prep Method: 310.2	Prep Date: N/A
Matrix: Water	Analytical Method: 310.2	Cal Date: 01/31/2012 08:52
Workgroup #: WG388329	Analyst: DIH	Run Date: 01/31/2012 09:06
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: SC120131001.030
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Bicarbonate (as CaCO ₃)		115		20.0	10.0

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL30-0112-1	Prep Method: 310.2	Prep Date: N/A
Matrix: Water	Analytical Method: 310.2	Cal Date: 01/31/2012 08:52
Workgroup #: WG388329	Analyst: DIH	Run Date: 01/31/2012 09:06
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: SC120131001.030
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Total (as CaCO ₃)		115		20.0	10.0

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: UV-120-1V
Client ID: MPL30-0112-1	Prep Method: 9014-9010C	Prep Date: N/A
Matrix: Water	Analytical Method: 9014-9010C	Cal Date: 01/30/2012 15:00
Workgroup #: WG388303	Analyst: DLP	Run Date: 01/30/2012 18:30
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: 1V.1201301830-07
Sample Tag: D02	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Cyanide	57-12-5	0.364		0.0100	0.00500

Certificate of Analysis

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: UV-120-1V
Client ID: MPL30-0112-1	Prep Method: SM4500-CN-C,G	Prep Date: N/A
Matrix: Water	Analytical Method: SM4500-CN-C,G	Cal Date: 02/03/2012 13:25
Workgroup #: WG388635	Analyst: JBK	Run Date: 02/03/2012 14:10
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: 1V.1202031410-03
Sample Tag: CN-A	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Cyanide, Amenable to Chlor.	57-12-5	0.362		0.0100	0.00500

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: UV-120-1V
Client ID: MPL30-0112-1	Prep Method: SM4500-CN-I	Prep Date: N/A
Matrix: Water	Analytical Method: SM4500-CN-I	Cal Date: 01/30/2012 15:15
Workgroup #: WG388302	Analyst: DLP	Run Date: 01/30/2012 18:00
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: 1V.1201301800-14
Sample Tag: D01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Cyanide, Weak/Dissociable	57-12-5	0.0370		0.0100	0.00500

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: YSI-32
Client ID: MPL30-0112-1	Prep Method: 120.1	Prep Date: N/A
Matrix: Water	Analytical Method: 120.1	Cal Date:
Workgroup #: WG388141	Analyst: DLP	Run Date: 01/27/2012 11:20
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: 32.1201271120-12
Sample Tag:	Units: umhos/cm	

Analyte	CAS #	Result	Qual	LOQ	LOD
Conductivity		674		1.00	0.500

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL30-0112-1	Prep Method: 350.1	Prep Date: N/A
Matrix: Water	Analytical Method: 350.1	Cal Date: 02/01/2012 08:52
Workgroup #: WG388451	Analyst: DIH	Run Date: 02/01/2012 08:56
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: SC120201001.011
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Nitrogen, Ammonia	7664-41-7		U	0.100	0.0500

U	Analyte was not detected. The concentration is below the reported LOD.				
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Certificate of Analysis

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL30-0112-1	Prep Method: 353.2	Prep Date: N/A
Matrix: Water	Analytical Method: 353.2	Cal Date: 01/30/2012 09:15
Workgroup #: WG388287	Analyst: DIH	Run Date: 01/30/2012 14:40
Collect Date: 01/25/2012 11:15	Dilution: 5	File ID: SC12013112374701
Sample Tag:	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Nitrate-Nitrite (as N)		7.51		0.250	0.125

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: UV-120-1V
Client ID: MPL30-0112-1	Prep Method: SM4500-P-E-20th	Prep Date: N/A
Matrix: Water	Analytical Method: SM4500-P-E-20th	Cal Date: 12/21/2011 14:35
Workgroup #: WG388053	Analyst: HJR	Run Date: 01/26/2012 13:15
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: 1V.1201261315-07
Sample Tag:	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Orthophosphate	14265-44-2		U	0.0500	0.0250
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: OVEN
Client ID: MPL30-0112-1	Prep Method: 160.1/SM2540C	Prep Date: N/A
Matrix: Water	Analytical Method: 160.1	Cal Date:
Workgroup #: WG388025	Analyst: HJR	Run Date: 01/27/2012 13:33
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: EN.1201271333-15
Sample Tag:	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Total Dissolved Solids		430		20.0	10.0

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: TOC-VWP
Client ID: MPL30-0112-1	Prep Method: 415.1	Prep Date: N/A
Matrix: Water	Analytical Method: 415.1	Cal Date: 12/06/2011 09:40
Workgroup #: WG388050	Analyst: DIH	Run Date: 01/27/2012 01:04
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: TC01262012.028
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Total Organic Carbon		1.51		1.00	0.500

Certificate of Analysis

Sample #: L12010686-01	PrePrep Method: N/A	Instrument: OVEN
Client ID: MPL30-0112-1	Prep Method: 160.2/SM2540D	Prep Date: N/A
Matrix: Water	Analytical Method: 160.2	Cal Date:
Workgroup #: WG388023	Analyst: HJR	Run Date: 01/27/2012 13:27
Collect Date: 01/25/2012 11:15	Dilution: 1	File ID: EN.1201271327-16
Sample Tag:	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Total Suspended Solids			U	5.00	2.50

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: MPL29-0112-1	Prep Method: 3005A	Prep Date: 01/27/2012 06:23
Matrix: Water	Analytical Method: 6010B	Cal Date: 01/27/2012 11:44
Workgroup #: WG388125	Analyst: SLP	Run Date: 01/27/2012 16:22
Collect Date: 01/25/2012 13:50	Dilution: 1	File ID: P2.012712.162234
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Beryllium, Total	7440-41-7		U	0.00200	0.00100
Calcium, Total	7440-70-2	89.4		0.200	0.100
Magnesium, Total	7439-95-4	14.7		0.500	0.250
Manganese, Total	7439-96-5		U	0.0100	0.00500
Potassium, Total	7440-09-7	3.02		1.00	0.500
Sodium, Total	7440-23-5	36.6		0.500	0.250
Tin, Total	7440-31-5		U	0.500	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6	0.0139	J	0.0200	0.0100

J	Estimated value ; the analyte concentration was less than the LOQ.
U	Analyte was not detected. The concentration is below the reported LOD.

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: ELAN-ICP
Client ID: MPL29-0112-1	Prep Method: 3015	Prep Date: 01/30/2012 06:29
Matrix: Water	Analytical Method: 6020	Cal Date: 01/31/2012 10:51
Workgroup #: WG388245	Analyst: JYH	Run Date: 01/31/2012 15:36
Collect Date: 01/25/2012 13:50	Dilution: 1	File ID: EL.013112.153650
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.00100	0.000500
Arsenic, Total	7440-38-2	0.00824		0.00100	0.000500
Barium, Total	7440-39-3	0.0498		0.00300	0.00150
Cadmium, Total	7440-43-9		U	0.000600	0.000300

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD
Chromium, Total	7440-47-3	0.00274		0.00200	0.00100
Cobalt, Total	7440-48-4		U	0.00100	0.000500
Copper, Total	7440-50-8		U	0.00200	0.00100
Lead, Total	7439-92-1		U	0.00100	0.000500
Nickel, Total	7440-02-0	0.00388	J	0.00400	0.00200
Selenium, Total	7782-49-2	0.0316		0.00100	0.000500
Silver, Total	7440-22-4		U	0.00100	0.000500
Thallium, Total	7440-28-0		U	0.000200	0.000100
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-02 **PrePrep Method:** N/A **Instrument:** HYDRA
Client ID: MPL29-0112-1 **Prep Method:** 7470A **Prep Date:** 01/27/2012 08:27
Matrix: Water **Analytical Method:** 7470A **Cal Date:** 01/27/2012 14:02
Workgroup #: WG388140 **Analyst:** SLP **Run Date:** 01/27/2012 14:48
Collect Date: 01/25/2012 13:50 **Dilution:** 1 **File ID:** HY.012712.144821
Sample Tag: 01 **Units:** mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD
Mercury	7439-97-6		U	0.000200	0.000100
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-02 **PrePrep Method:** N/A **Instrument:** IC2
Client ID: MPL29-0112-1 **Prep Method:** 300.0 **Prep Date:** 01/31/2012 16:00
Matrix: Water **Analytical Method:** 300.0 **Cal Date:** 12/21/2011 13:49
Workgroup #: WG388430 **Analyst:** JBK **Run Date:** 01/31/2012 20:36
Collect Date: 01/25/2012 13:50 **Dilution:** 4 **File ID:** I20131122036.18
Sample Tag: DL01 **Units:** mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD
Chloride	16887-00-6	54.1		0.800	0.400
Fluoride	16984-48-8		U	0.800	0.400
Sulfate	14808-79-8	120		4.00	2.00
U	Analyte was not detected. The concentration is below the reported LOD.				

Certificate of Analysis

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: ORION-4STAR
Client ID: MPL29-0112-1	Prep Method: 9040C	Prep Date: N/A
Matrix: Water	Analytical Method: 9040C	Cal Date:
Workgroup #: WG388040	Analyst: TMM	Run Date: 01/26/2012 12:30
Collect Date: 01/25/2012 13:50	Dilution: 1	File ID: OS12012709272201
Sample Tag:	Units: UNITS	

Analyte	CAS #	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	8.21		0.000	0.000

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL29-0112-1	Prep Method: 310.2	Prep Date: N/A
Matrix: Water	Analytical Method: 310.2	Cal Date: 01/31/2012 08:52
Workgroup #: WG388329	Analyst: DIH	Run Date: 01/31/2012 09:07
Collect Date: 01/25/2012 13:50	Dilution: 1	File ID: SC120131001.033
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Total (as CaCO3)		141		20.0	10.0

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL29-0112-1	Prep Method: 310.2	Prep Date: N/A
Matrix: Water	Analytical Method: 310.2	Cal Date: 01/31/2012 08:52
Workgroup #: WG388329	Analyst: DIH	Run Date: 01/31/2012 09:07
Collect Date: 01/25/2012 13:50	Dilution: 1	File ID: SC120131001.033
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Carbonate (as CaCO3)			U	20.0	10.0

U Analyte was not detected. The concentration is below the reported LOD.

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL29-0112-1	Prep Method: 310.2	Prep Date: N/A
Matrix: Water	Analytical Method: 310.2	Cal Date: 01/31/2012 08:52
Workgroup #: WG388329	Analyst: DIH	Run Date: 01/31/2012 09:07
Collect Date: 01/25/2012 13:50	Dilution: 1	File ID: SC120131001.033
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Bicarbonate (as CaCO3)		141		20.0	10.0

Certificate of Analysis

Sample #: L12010686-02		PrePrep Method: N/A		Instrument: UV-120-1V		
Client ID: MPL29-0112-1		Prep Method: SM4500-CN-I		Prep Date: N/A		
Matrix: Water		Analytical Method: SM4500-CN-I		Cal Date: 01/30/2012 15:15		
Workgroup #: WG388302		Analyst: DLP		Run Date: 01/30/2012 18:00		
Collect Date: 01/25/2012 13:50		Dilution: 1		File ID: 1V.1201301800-15		
Sample Tag: D01		Units: mg/L				
Analyte		CAS #	Result	Qual	LOQ	LOD
Cyanide, Weak/Dissociable		57-12-5	0.0251		0.0100	0.00500

Sample #: L12010686-02		PrePrep Method: N/A		Instrument: UV-120-1V		
Client ID: MPL29-0112-1		Prep Method: 9014-9010C		Prep Date: N/A		
Matrix: Water		Analytical Method: 9014-9010C		Cal Date: 01/30/2012 15:00		
Workgroup #: WG388303		Analyst: DLP		Run Date: 01/30/2012 18:30		
Collect Date: 01/25/2012 13:50		Dilution: 1		File ID: 1V.1201301830-08		
Sample Tag: D02		Units: mg/L				
Analyte		CAS #	Result	Qual	LOQ	LOD
Cyanide		57-12-5	0.351		0.0100	0.00500

Sample #: L12010686-02		PrePrep Method: N/A		Instrument: UV-120-1V		
Client ID: MPL29-0112-1		Prep Method: SM4500-CN-C,G		Prep Date: N/A		
Matrix: Water		Analytical Method: SM4500-CN-C,G		Cal Date: 02/03/2012 13:25		
Workgroup #: WG388635		Analyst: JBK		Run Date: 02/03/2012 14:10		
Collect Date: 01/25/2012 13:50		Dilution: 1		File ID: 1V.1202031410-04		
Sample Tag: CN-A		Units: mg/L				
Analyte		CAS #	Result	Qual	LOQ	LOD
Cyanide, Amenable to Chlor.		57-12-5	0.348		0.0100	0.00500

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: YSI-32			
Client ID: MPL29-0112-1	Prep Method: 120.1	Prep Date: N/A			
Matrix: Water	Analytical Method: 120.1	Cal Date:			
Workgroup #: WG388141	Analyst: DLP	Run Date: 01/27/2012 11:20			
Collect Date: 01/25/2012 13:50	Dilution: 1	File ID: 32.1201271120-13			
Sample Tag:	Units: umhos/cm				
Analyte	CAS #	Result	Qual	LOQ	LOD
Conductivity		741		1.00	0.500

Certificate of Analysis

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL29-0112-1	Prep Method: 350.1	Prep Date: N/A
Matrix: Water	Analytical Method: 350.1	Cal Date: 02/01/2012 08:52
Workgroup #: WG388451	Analyst: DIH	Run Date: 02/01/2012 08:57
Collect Date: 01/25/2012 13:50	Dilution: 1	File ID: SC120201001.012
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Nitrogen, Ammonia	7664-41-7		U	0.100	0.0500
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL29-0112-1	Prep Method: 353.2	Prep Date: N/A
Matrix: Water	Analytical Method: 353.2	Cal Date: 01/30/2012 09:15
Workgroup #: WG388287	Analyst: DIH	Run Date: 01/30/2012 14:40
Collect Date: 01/25/2012 13:50	Dilution: 4	File ID: SC12013112375401
Sample Tag:	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Nitrate-Nitrite (as N)		6.19		0.200	0.100

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: UV-120-1V
Client ID: MPL29-0112-1	Prep Method: SM4500-P-E-20th	Prep Date: N/A
Matrix: Water	Analytical Method: SM4500-P-E-20th	Cal Date: 12/21/2011 14:35
Workgroup #: WG388053	Analyst: HJR	Run Date: 01/26/2012 13:15
Collect Date: 01/25/2012 13:50	Dilution: 1	File ID: 1V.1201261315-08
Sample Tag:	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Orthophosphate	14265-44-2		U	0.0500	0.0250
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: OVEN
Client ID: MPL29-0112-1	Prep Method: 160.1/SM2540C	Prep Date: N/A
Matrix: Water	Analytical Method: 160.1	Cal Date:
Workgroup #: WG388025	Analyst: HJR	Run Date: 01/27/2012 13:33
Collect Date: 01/25/2012 13:50	Dilution: 1	File ID: EN.1201271333-16
Sample Tag:	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Total Dissolved Solids		448		20.0	10.0

Certificate of Analysis

Sample #: L12010686-02		PrePrep Method: N/A		Instrument: TOC-VWP		
Client ID: MPL29-0112-1		Prep Method: 415.1		Prep Date: N/A		
Matrix: Water		Analytical Method: 415.1		Cal Date: 12/06/2011 09:40		
Workgroup #: WG388050		Analyst: DIH		Run Date: 01/27/2012 01:25		
Collect Date: 01/25/2012 13:50		Dilution: 1		File ID: TC01262012.029		
Sample Tag: 01		Units: mg/L				
Analyte		CAS #	Result	Qual	LOQ	LOD
Total Organic Carbon			1.32		1.00	0.500

Sample #: L12010686-02	PrePrep Method: N/A	Instrument: OVEN			
Client ID: MPL29-0112-1	Prep Method: 160.2/SM2540D	Prep Date: N/A			
Matrix: Water	Analytical Method: 160.2	Cal Date:			
Workgroup #: WG388023	Analyst: HJR	Run Date: 01/27/2012 13:27			
Collect Date: 01/25/2012 13:50	Dilution: 1	File ID: EN.1201271327-17			
Sample Tag:	Units: mg/L				
Analyte	CAS #	Result	Qual	LOQ	LOD
Total Suspended Solids			U	5.00	2.50

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: PE-ICP2			
Client ID: MPL26-0112-1	Prep Method: 3005A	Prep Date: 01/27/2012 06:23			
Matrix: Water	Analytical Method: 6010B	Cal Date: 01/30/2012 12:30			
Workgroup #: WG388125	Analyst: SLP	Run Date: 01/30/2012 15:13			
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: P2.013012.151312			
Sample Tag: 02	Units: mg/L				
Analyte	CAS #	Result	Qual	LOQ	LOD
Magnesium, Total	7439-95-4	47.8		0.500	0.250

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: MPL26-0112-1	Prep Method: 3005A	Prep Date: 01/27/2012 06:23
Matrix: Water	Analytical Method: 6010B	Cal Date: 01/27/2012 11:44
Workgroup #: WG388125	Analyst: SLP	Run Date: 01/27/2012 16:29
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: P2.012712.162927
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Beryllium, Total	7440-41-7		U	0.00200	0.00100
Calcium, Total	7440-70-2	212		0.200	0.100
Manganese, Total	7439-96-5	0.00551	J	0.0100	0.00500
Potassium, Total	7440-09-7	3.87		1.00	0.500
Sodium, Total	7440-23-5	48.9		0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD
Tin, Total	7440-31-5		U	0.500	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6		U	0.0200	0.0100
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: ELAN-ICP
Client ID: MPL26-0112-1	Prep Method: 3015	Prep Date: 01/30/2012 06:29
Matrix: Water	Analytical Method: 6020	Cal Date: 01/31/2012 10:51
Workgroup #: WG388245	Analyst: JYH	Run Date: 01/31/2012 15:44
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: EL.013112.154436
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.00100	0.000500
Arsenic, Total	7440-38-2	0.00111		0.00100	0.000500
Barium, Total	7440-39-3	0.0557		0.00300	0.00150
Cadmium, Total	7440-43-9		U	0.000600	0.000300
Chromium, Total	7440-47-3	0.00336		0.00200	0.00100
Cobalt, Total	7440-48-4		U	0.00100	0.000500
Copper, Total	7440-50-8	0.00187	J	0.00200	0.00100
Lead, Total	7439-92-1		U	0.00100	0.000500
Nickel, Total	7440-02-0	0.00513		0.00400	0.00200
Selenium, Total	7782-49-2	0.00890		0.00100	0.000500
Silver, Total	7440-22-4		U	0.00100	0.000500
Thallium, Total	7440-28-0		U	0.000200	0.000100
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: HYDRA
Client ID: MPL26-0112-1	Prep Method: 7470A	Prep Date: 01/27/2012 08:27
Matrix: Water	Analytical Method: 7470A	Cal Date: 01/27/2012 14:02
Workgroup #: WG388140	Analyst: SLP	Run Date: 01/27/2012 14:50
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: HY.012712.145004
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Mercury	7439-97-6		U	0.000200	0.000100
U	Analyte was not detected. The concentration is below the reported LOD.				

Certificate of Analysis

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: IC2
Client ID: MPL26-0112-1	Prep Method: 300.0	Prep Date: 01/31/2012 16:00
Matrix: Water	Analytical Method: 300.0	Cal Date: 12/21/2011 13:49
Workgroup #: WG388430	Analyst: JBK	Run Date: 01/31/2012 20:54
Collect Date: 01/25/2012 15:25	Dilution: 10	File ID: I20131122054.19
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Chloride	16887-00-6	160		2.00	1.00
Fluoride	16984-48-8		U	2.00	1.00
Sulfate	14808-79-8	465		10.0	5.00
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: ORION-4STAR
Client ID: MPL26-0112-1	Prep Method: 9040C	Prep Date: N/A
Matrix: Water	Analytical Method: 9040C	Cal Date:
Workgroup #: WG388040	Analyst: TMM	Run Date: 01/26/2012 12:30
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: OS12012709272801
Sample Tag:	Units: UNITS	

Analyte	CAS #	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	7.25		0.000	0.000

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL26-0112-1	Prep Method: 310.2	Prep Date: N/A
Matrix: Water	Analytical Method: 310.2	Cal Date: 01/31/2012 08:52
Workgroup #: WG388329	Analyst: DIH	Run Date: 01/31/2012 09:08
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: SC120131001.034
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Carbonate (as CaCO ₃)			U	20.0	10.0
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL26-0112-1	Prep Method: 310.2	Prep Date: N/A
Matrix: Water	Analytical Method: 310.2	Cal Date: 01/31/2012 08:52
Workgroup #: WG388329	Analyst: DIH	Run Date: 01/31/2012 09:08
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: SC120131001.034
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Total (as CaCO ₃)		88.5		20.0	10.0

Certificate of Analysis

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: SMARTCHEM
Client ID: MPL26-0112-1	Prep Method: 310.2	Prep Date: N/A
Matrix: Water	Analytical Method: 310.2	Cal Date: 01/31/2012 08:52
Workgroup #: WG388329	Analyst: DIH	Run Date: 01/31/2012 09:08
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: SC120131001.034
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Bicarbonate (as CaCO ₃)		88.5		20.0	10.0

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: UV-120-1V
Client ID: MPL26-0112-1	Prep Method: SM4500-CN-C,G	Prep Date: N/A
Matrix: Water	Analytical Method: SM4500-CN-C,G	Cal Date: 02/03/2012 13:25
Workgroup #: WG388635	Analyst: JBK	Run Date: 02/03/2012 14:10
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: 1V.1202031410-05
Sample Tag: CN-A	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Cyanide, Amenable to Chlor.	57-12-5		U	0.0100	0.00500

U Analyte was not detected. The concentration is below the reported LOD.

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: UV-120-1V
Client ID: MPL26-0112-1	Prep Method: SM4500-CN-I	Prep Date: N/A
Matrix: Water	Analytical Method: SM4500-CN-I	Cal Date: 01/30/2012 15:15
Workgroup #: WG388302	Analyst: DLP	Run Date: 01/30/2012 18:00
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: 1V.1201301800-16
Sample Tag: D01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Cyanide, Weak/Dissociable	57-12-5		U	0.0100	0.00500

U Analyte was not detected. The concentration is below the reported LOD.

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: UV-120-1V
Client ID: MPL26-0112-1	Prep Method: 9014-9010C	Prep Date: N/A
Matrix: Water	Analytical Method: 9014-9010C	Cal Date: 01/30/2012 15:15
Workgroup #: WG388303	Analyst: DLP	Run Date: 01/30/2012 18:30
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: 1V.1201301830-09
Sample Tag: D02	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Cyanide	57-12-5		U	0.0100	0.00500

Certificate of Analysis

U	Analyte was not detected. The concentration is below the reported LOD.
---	--

Sample #: L12010686-03		PrePrep Method: N/A		Instrument: YSI-32		
Client ID: MPL26-0112-1		Prep Method: 120.1		Prep Date: N/A		
Matrix: Water		Analytical Method: 120.1		Cal Date:		
Workgroup #: WG388141		Analyst: DLP		Run Date: 01/27/2012 11:20		
Collect Date: 01/25/2012 15:25		Dilution: 1		File ID: 32.1201271120-14		
Sample Tag:		Units: umhos/cm				
Analyte		CAS #	Result	Qual	LOQ	LOD
Conductivity			1440		1.00	0.500

Sample #:	L12010686-03	PrePrep Method:	N/A	Instrument:	SMARTCHEM	
Client ID:	MPL26-0112-1	Prep Method:	350.1	Prep Date:	N/A	
Matrix:	Water	Analytical Method:	350.1	Cal Date:	02/01/2012 08:52	
Workgroup #:	WG388451	Analyst:	DIH	Run Date:	02/01/2012 08:57	
Collect Date:	01/25/2012 15:25	Dilution:	1	File ID:	SC120201001.013	
Sample Tag:	01	Units:	mg/L			
Analyte		CAS #	Result	Qual	LOQ	LOD
Nitrogen, Ammonia		7664-41-7		U	0.100	0.0500
U	Analyte was not detected. The concentration is below the reported LOD.					

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: SMARTCHEM			
Client ID: MPL26-0112-1	Prep Method: 353.2	Prep Date: N/A			
Matrix: Water	Analytical Method: 353.2	Cal Date: 01/30/2012 09:15			
Workgroup #: WG388287	Analyst: DIH	Run Date: 01/30/2012 14:40			
Collect Date: 01/25/2012 15:25	Dilution: 4	File ID: SC12013112380001			
Sample Tag:	Units: mg/L				
Analyte	CAS #	Result	Qual	LOQ	LOD
Nitrate-Nitrite (as N)		5.73		0.200	0.100

Sample #: L12010686-03		PrePrep Method: N/A		Instrument: UV-120-1V		
Client ID: MPL26-0112-1		Prep Method: SM4500-P-E-20th		Prep Date: N/A		
Matrix: Water		Analytical Method: SM4500-P-E-20th		Cal Date: 12/21/2011 14:35		
Workgroup #: WG388053		Analyst: HJR		Run Date: 01/26/2012 13:15		
Collect Date: 01/25/2012 15:25		Dilution: 1		File ID: 1V.1201261315-09		
Sample Tag:		Units: mg/L				
Analyte		CAS #	Result	Qual	LOQ	LOD
Orthophosphate		14265-44-2		U	0.0500	0.0250

Certificate of Analysis

U	Analyte was not detected. The concentration is below the reported LOD.
---	--

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: OVEN
Client ID: MPL26-0112-1	Prep Method: 160.1/SM2540C	Prep Date: N/A
Matrix: Water	Analytical Method: 160.1	Cal Date:
Workgroup #: WG388025	Analyst: HJR	Run Date: 01/27/2012 13:33
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: EN.1201271333-17
Sample Tag:	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Total Dissolved Solids		1020		20.0	10.0

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: TOC-VWP
Client ID: MPL26-0112-1	Prep Method: 415.1	Prep Date: N/A
Matrix: Water	Analytical Method: 415.1	Cal Date: 12/06/2011 09:40
Workgroup #: WG388050	Analyst: DIH	Run Date: 01/27/2012 01:46
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: TC01262012.030
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Total Organic Carbon		0.995	J	1.00	0.500

J	Estimated value ; the analyte concentration was less than the LOQ.
---	--

Sample #: L12010686-03	PrePrep Method: N/A	Instrument: OVEN
Client ID: MPL26-0112-1	Prep Method: 160.2/SM2540D	Prep Date: N/A
Matrix: Water	Analytical Method: 160.2	Cal Date:
Workgroup #: WG388023	Analyst: HJR	Run Date: 01/27/2012 13:27
Collect Date: 01/25/2012 15:25	Dilution: 1	File ID: EN.1201271327-18
Sample Tag:	Units: mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Total Suspended Solids		4.50	J	5.00	2.50

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
February 8, 2012

ADC - ANTHONY D. CANTER	AJF - AMANDA J. FICKIESEN	ALB - ANNIE L. BROWN
ALV - AMY L. VALENTINE	AML - TONY M. LONG	AZH - AFTER HOURS
BLG - BRENDA L. GREENWALT	BRG - BRENDA R. GREGORY	CAA - CASSIE A. AUGENSTEIN
CAF - CHERYL A. FLOWERS	CEB - CHAD E. BARNES	CLC - CHRYS L. CRAWFORD
CLS - CARA L. STRICKLER	CLW - CHARISSA L. WINTERS	CPD - CHAD P. DAVIS
CS - CODY M. STRAHLER	CSH - CHRIS S. HILL	DDE - DEBRA D. ELLIOTT
DEV - DAVID E. VANDENBERG	DGB - DOUGLAS G. BUTCHER	DHG - DEBORAH H. GRIFFITHS
DIH - DEANNA I. HESSON	DLB - DAVID L. BUMGARNER	DLP - DOROTHY L. PAYNE
DLR - DIANNA L. RAUCH	DSM - DAVID S. MOSSOR	ECL - ERIC C. LAWSON
EDL - ERIN D. LONG	ERP - ERIN R. PORTER	FJB - FRANCES J. BOLDEN
HAV - HEMA VILASAGAR	HJR - HOLLY J. REED	JAL - JOHN A. LENT
JBK - JEREMY B. KINNEY	JDH - JUSTIN D. HESSON	JKS - JANE K. SCHAAD
JLL - JOHN L. LENT	JWR - JOHN W. RICHARDS	JWS - JACK W. SHEAVES
JYH - JI Y. HU	KEB - KATIE E. BARNES	KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON	LKN - LINDA K. NEDEFF	LSB - LESLIE S. BUCINA
MDA - MIKE D. ALBERTSON	MDC - MIKE D. COCHRAN	MES - MARY E. SCHILLING
MMB - MAREN M. BEERY	MRT - MICHELLE R. TAYLOR	MSW - MATT S. WILSON
PDM - PIERCE D. MORRIS	PWD - PAUL W. DENT	RAH - ROY A. HALSTEAD
REK - BOB E. KYER	RLB - BOB BUCHANAN	RLK - ROBIN L. KLINGER
RWC - RODNEY W. CAMPBELL	SJP - SUZANNE J. PAUGH	SLM - STEPHANIE L. MOSSBURG
SLP - SHERI L. PFALZGRAF	TIP - TAE I. PARRISH	TMB - TIFFANY M. BAILEY
TMM - TAMMY M. MORRIS	VC - VICKI COLLIER	WJB - WILL J. BEASLEY
WTD - WADE T. DELONG		

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the LOQ.
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentatively identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

***Special Notes for Organic Analytes



1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.



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Microbac

CHAIN-OF-CUSTODY RECORD

[illegible]

**Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page _____ of _____

Internal Chain of Custody Report

Login: L12010686

Account: 3005

Project: 3005.011

Samples: 3

Due Date: 06-FEB-2012

Samplenum **Container ID** **Products**
L12010686-01 931714 300

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	31-JAN-2012 10:30	JBK	RLK	
3	STORE	SEM	A1	03-FEB-2012 11:19	RLK	JBK	

Samplenum **Container ID** **Products**
L12010686-01 931715 ALK ALK-B ALK-C

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	30-JAN-2012 08:01	DIH	JKS	
3	STORE	WET	A1	02-FEB-2012 07:37	AZH	DIH	

Samplenum **Container ID** **Products**
L12010686-01 931716 COND COR-PH PO4

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	L1	26-JAN-2012 11:22	RLK		
2	ANALYZ	L1	WET	26-JAN-2012 11:47	TMM	JKS	
3	STORE	WET	A1	30-JAN-2012 08:11	JKS	DLP	

Samplenum **Container ID** **Products**
L12010686-01 931717 TDS TSS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	27-JAN-2012 09:14	HJR	RLK	
3	STORE	WET	A1	31-JAN-2012 08:51	RLK	HJR	

Samplenum **Container ID** **Products**
L12010686-01 931718 NH3 NO3NO2 TOC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		<2
2	ANALYZ	W1	WET	26-JAN-2012 13:28	DIH	RLK	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L12010686

Account: 3005

Project: 3005.011

Samples: 3

Due Date: 06-FEB-2012

Samplenum **Container ID** **Products**
L12010686-01 931719 AG-MS AS-MS BA-MS BE-AX CA CD-MS CO-MS CR-MS (

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	DIG	26-JAN-2012 13:16	ERP	JKS	
3	STORE	DIG	A1	30-JAN-2012 13:45	RLK	ERP	

Samplenum **Container ID** **Products**
L12010686-01 931720 CN CN-A CN-WD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	30-JAN-2012 08:15	9LP	JKS	

Samplenum **Container ID** **Products**
L12010686-02 931721 300

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	31-JAN-2012 10:30	JBK	RLK	
3	STORE	SEM	A1	03-FEB-2012 11:19	RLK	JBK	

Samplenum **Container ID** **Products**
L12010686-02 931722 ALK ALK-B ALK-C

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	30-JAN-2012 08:01	DIH	JKS	
3	STORE	WET	A1	02-FEB-2012 07:37	AZH	DIH	

Samplenum **Container ID** **Products**
L12010686-02 931723 PO4 COND COR-PH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	L1	26-JAN-2012 11:22	RLK		
2	ANALYZ	L1	WET	26-JAN-2012 11:47	TMM	JKS	
3	STORE	WET	A1	30-JAN-2012 08:11	JKS	DLP	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L12010686

Account: 3005

Project: 3005.011

Samples: 3

Due Date: 06-FEB-2012

Samplenum **Container ID** **Products**
L12010686-02 931724 TDS TSS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	27-JAN-2012 09:14	HJR	RLK	
3	STORE	WET	A1	31-JAN-2012 08:52	RLK	HJR	

Samplenum **Container ID** **Products**
L12010686-02 931725 NH3 NO3NO2 TOC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		<2
2	ANALYZ	W1	WET	26-JAN-2012 13:28	DIH	RLK	
3	STORE	WET	A1	02-FEB-2012 13:44	RLK	TMM	

Samplenum **Container ID** **Products**
L12010686-02 931726 HG K MG MN NA NI-MS PB-MS SB-MS SE-MS SN TL-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	DIG	26-JAN-2012 13:16	ERP	JKS	
3	STORE	DIG	A1	30-JAN-2012 13:45	RLK	ERP	

Samplenum **Container ID** **Products**
L12010686-02 931727 CN CN-A CN-WD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	30-JAN-2012 08:15	9LP	JKS	

Samplenum **Container ID** **Products**
L12010686-03 931728 300

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	31-JAN-2012 10:30	JBK	RLK	
3	STORE	WET	A1	03-FEB-2012 11:23	RLK	JBK	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L12010686**Account:** 3005**Project:** 3005.011**Samples:** 3**Due Date:** 06-FEB-2012

Samplenum **Container ID** **Products**
L12010686-03 931729 ALK ALK-B ALK-C

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	30-JAN-2012 08:01	DIH	JKS	
3	STORE	WET	A1	02-FEB-2012 07:37	AZH	DIH	

Samplenum **Container ID** **Products**
L12010686-03 931730 COND COR-PH PO4

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	L1	26-JAN-2012 11:22	RLK		
2	ANALYZ	L1	WET	26-JAN-2012 11:47	TMM	JKS	
3	STORE	WET	A1	30-JAN-2012 08:11	JKS	DLP	

Samplenum **Container ID** **Products**
L12010686-03 931731 TDS TSS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	27-JAN-2012 09:14	HJR	RLK	
3	STORE	WET	A1	31-JAN-2012 08:51	RLK	HJR	

Samplenum **Container ID** **Products**
L12010686-03 931732 NH3 NO3NO2 TOC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		<2
2	ANALYZ	W1	WET	26-JAN-2012 13:28	DIH	RLK	
3	STORE	WET	A1	02-FEB-2012 13:43	RLK	TMM	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L12010686**Account:** 3005**Project:** 3005.011**Samples:** 3**Due Date:** 06-FEB-2012

Samplenum **Container ID** **Products**
L12010686-03 931733 AG-MS AS-MS BA-MS BE-AX CA CD-MS CO-MS CR-MS (

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	DIG	26-JAN-2012 13:16	ERP	JKS	
3	STORE	DIG	A1	30-JAN-2012 13:45	RLK	ERP	

Samplenum **Container ID** **Products**
L12010686-03 931734 CN CN-A CN-WD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JAN-2012 11:22	RLK		
2	ANALYZ	W1	WET	30-JAN-2012 08:15	9LP	JKS	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

